

# MACOMB COMMUNITY COLLEGE TRANSFER GUIDE

## COLLEGE OF ENGINEERING AND SCIENCE

### ENGINEERING PROGRAMS

The following courses will transfer to Detroit Mercy’s Engineering programs (Architectural, Civil, Electrical, Mechanical, or Robotics & Mechatronic Systems). Normally, students may transfer up to 63 credits. However, due to an Articulation Agreement, students may transfer additional MCC courses that apply toward a Detroit Mercy engineering degree (currently up to 64 credits). Additional courses not on this guide may also transfer. Course grades must be “C” (2.0) or better. Contact the Transfer Team if you have any questions: [transferteam@udmercy.edu](mailto:transferteam@udmercy.edu) or 313-993-1940.

#### Courses which fulfill Detroit Mercy Core Curriculum Knowledge Area Requirements

Macomb Community College Courses	Detroit Mercy Equivalencies	Core
<b>SPCH</b> 1060 Speech Communication	CST 1010 Fundamentals of Speech	A1
<b>ENGL</b> 1190 or <b>ENGL</b> 1220	ENL 1310 Academic Writing	A2
Satisfied by program requirement	Quantitative and Symbolic Reasoning course	B1
Satisfied by program requirement	Statistical and Probabilistic Reasoning course	B2
Satisfied by program requirement	Physical Sciences course	C1
Satisfied by program requirement	Social Sciences course	C2
<b>PHIL</b> 2010 Introduction to Philosophy	PHL 1000 Introduction to Philosophy	D1
<b>HUMN</b> 1700, 2000, 2100	Choose 1 Religious Knowledge course	D2
<b>HUMN</b> 1700, 2000, 2100; <b>PHIL</b> 2120, 2400	Choose 1 PHL/RELS Elective course	D3
<b>HIST</b> 1500, 1600, 1700, 2100, 2200, 2520; <b>INTL</b> 2000	Choose 1 Historical Experiences course	E1
<b>ENGL</b> 1730, 2510, 2520, 2600, 2610, 2730, *2740, 2800, 2810, 2850	Choose 1 Literary Experiences course	E2
<b>ARTT</b> 1620, 2650, 2660; <b>ENGL</b> 2410; <b>HUMN</b> 1210, 1270, 1300, 1460, 1473; <b>MACA</b> 1025; <b>MUSC</b> 1030, 1040, 2710, 2720 Satisfied by program requirement for Architectural Engr	Choose 1 Aesthetic Experiences course	E3
ECON 1160 – due to an Articulation Agreement, ECON 1160 may be used as Core E1, E2 <i>or</i> E3 only by students who have completed an Associate degree or Certificate in Pre-Engineering at MCC (not needed if MTA satisfied)		
Satisfied by program requirement	Ethics course	F1

**\*Course within a Knowledge Area that also fulfills an Integrating Theme (IT) requirement; see IT options.**

**MTA Students only:** Transfer students who satisfy the **Michigan Transfer Agreement (MTA)** will have the Core Curriculum Knowledge Area requirements met. Fulfilling the Core Integrating Themes is still necessary. Students should select courses that meet both the MTA and program specific requirements.

#### Courses which fulfill Detroit Mercy Core Curriculum Integrating Theme Requirements

Macomb Community College Courses	Detroit Mercy Equivalencies	Core
Satisfied by program requirements -all Engineering disciplines		IT1, IT2, IT3, IT5 & IT6
<b>ENGL</b> *2740 (also fulfills E2 as shown above); <b>GEOG</b> 2000; <b>PSYC</b> 2450, 2500, 2800; <b>SPCH</b> 2300 Satisfied by program requirements for Architectural Engr and Civil Engr	Choose 1 Human Difference course	IT4

**These courses fulfill requirements for Detroit Mercy's Engineering Programs:**

**All Engineering Disciplines**

Macomb Community College Courses			Detroit Mercy Equivalencies		
MATH	1760	Analytic Geometry & Calculus 1	MTH	1410	Analytic Geometry & Calculus I
MATH	1770	Analytic Geometry & Calculus 2	MTH	1420	Analytic Geometry & Calculus II
MATH	2760	Analytic Geometry & Calculus 3	MTH	2410	Analytic Geometry & Calculus III
MATH	2770	Differential Equations	MTH	3720	Differential Equations w/Linear Algebra
PHYS	2220	Analytical Physics 1	PHY	1600/1610	General Physics I/Lab
PHYS	2230	Analytical Physics 2	PHY	1620/1630	General Physics II/Lab
ENGR	1000	Introduction to Engineering	Varies by dept. May be part of a combination– see below.		

**Additional Courses for Architectural Engineering**

Macomb Community College Courses			Detroit Mercy Equivalencies		
ARCH	1030	Sust Bldg Design & Construction	ARCH	1880	Construction Principles
**ARTT	1060	Basic Drawing 1	ARCH	1110	Visual Communication I
<b>OR</b>					
** ARCH	1015	Architectural Graphics			
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/ Lab
DRCG	1130	Intro to 2D & 3D AutoCAD	Fulfills ARCH 2110 Visual Communications III req't for AE		
<b>AND</b>			<b>AND</b>		
ENGR	1000	Intro to Engineering	ENGR	1050	Engineering Graphics & Design
MATH	1340	Statistics	STA	2250	Statistics
MATH	2000	Intro Linear Algebra (or any MATH or science course 1000-level or higher not already allocated)	Additional math or science course 1000-level or higher (with department/dean approval)		
** Only transferable for Detroit Mercy course listed if approved with portfolio review.					

**Additional courses for Civil Engineering**

Macomb Community College Courses			Detroit Mercy Equivalencies		
BIOL 1310, 1700, 1800; ENV5 1050 (or another approved biology course)			Choose 1 approved Biology course		
CHEM	1050	Intro General Chemistry	CHM	1050	Intro to General Chemistry
<b>OR</b>			<b>OR</b>		
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/ Lab
CIVL	2100	Const Surv GPS <b>OR</b> DRCG 1160 Civ/Surv CG <b>OR</b> CIVL 1105 Elementary Surveying	CIVE	3400	Civil Engr Techniques: Surveying, CAD, GIS
DRCG	1130	Intro to 2D & 3D AutoCAD	ENGR	1050	Engineering Graphics & Design
<b>AND</b>					
ENGR	1000	Intro to Engineering			
MATH	1340	Statistics	STA	2250	Statistics

**Additional courses for Electrical Engineering**

Macomb Community College Courses			Detroit Mercy Equivalencies		
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/Lab
ENGR	1000	Introduction to Engineering	ENGR	1080	Fundamentals of Engineering Design
ITCS	2530	C++ Programming 1	CSSE	1710/1711	Intro to Programming I/Lab
ITCS	2550	C++ Programming 2	CSSE	1720	Intro to Programming II

### Additional courses for Mechanical Engineering

Macomb Community College Courses			Detroit Mercy Equivalencies		
CHEM	1050	Intro General Chemistry	CHM	1050	Intro to General Chemistry
<b>OR</b>			<b>OR</b>		
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/Lab
ENGR	1000	Introduction to Engineering	ENGR	1080	Fundamentals of Engineering Design
ITCS	2530	C++ Programming 1	CSSE	1710/1711	Intro to Programming I/Lab
MATH	2000	Intro Linear Algebra	MTH	3020	Linear Alg w/Apps (optional Tech Elective)

### Additional courses for Robotics & Mechatronic Systems Engineering

Macomb Community College Courses			Detroit Mercy Equivalencies		
CHEM	1170	General Chemistry I	CHM	1070/1100	General Chemistry I/Lab
ENGR	1000	Introduction to Engineering	ENGR	1080	Fundamentals of Engineering Design
ITCS	2530	C++ Programming 1	CSSE	1710/1711	Intro to Programming I/Lab
ITCS	2550	C++ Programming 2	CSSE	1720	Intro to Programming II

#### Entrance Requirements:

- Minimum 2.5 overall GPA based on 24 or more credits earned at MCC (and/or other accredited institutions)
- Minimum 2.5 GPA in math/science/engineering courses
- Completion of precalculus or higher-level math course with minimum grade of "C".
- If less than 24 credits have been earned, a student's high school transcript is required.

Apply for admission to Detroit Mercy at [Transfer Admissions](#); free application